Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Date: 29/10/2018**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-01-10-46** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division. |
| **Agency** | : | Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64 |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-19/WO/000023/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 24-10-18 |
| **Customer ID** | : | Drain Bottom Slab Concrete |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M20 / 7 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| **Date of test** | : | 29/10/2018 |

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 29/10/2018 | 151.59 X 149.91 X 149.00 | 22724 | **8.581** | 412.2 | 18.1 | 18.1 |
| 2 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 29/10/2018 | 150.00 X 151.54 X 149.55 | 22731 | **8.077** | 409.2 | 18.0 | |
| 3 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 29/10/2018 | 150.98 X 151.45 X 150.64 | 22866 | **8.999** | 414.0 | 18.1 | |

**Note:**

The results pertain to the samples received and tested.
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Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

CIVIL Pro Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**


****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL |

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## TEST REPORT ON COARSE AGGREGATES

**Date: 11-10-18**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-01-10-46** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division. |
| **Agency** | : | Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64 |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-19/WO/000023/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 08-10-18 |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 08-10-18 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 215 | 215 | 1.4 | 98.6 | 90-100 |
| 3 | 20 mm | 7455 | 7670 | 51.1 | 48.9 | 30-70 |
| 4 | 10 mm | 4266 | 11936 | 79.6 | 20.4 | 10-35 |
| 5 | 4.75 mm | 2844 | 14780 | 98.5 | 1.5 | 0-5 |
| 6 | Pan | 220 | 15000 | 100.0 | 0 | --- |

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# TEST RESULTS OF STEEL

**Date: 13-10-18**

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-01-10-46** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division. |
| **Agency** | : | Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64 |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-19/WO/000023/2018-19 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 12-10-18 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 12-10-18 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.392 | 514 | 652 | 20.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.615 | 526 | 674 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.886 | 546 | 668 | 20.0% | Satisfactory | Satisfactory |

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**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

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*End of Report*

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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# TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

| | | |
|---|---|---|
| Lab ID | : | CP-2019-01-10-46 |
| Customer | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| Address | : | Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore. |
| Project Name | : | Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division. |
| Agency | : | Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64 |
| Customer's Reference | : | EE(YNK.D)E-PMT-19/WO/000023/2018-19 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 24-10-18 |
| Customer ID | : | Drain Bottom Slab Concrete |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M20 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |
| Date of test | : | 19/11/2018 |

**Date: 19/11/2018**

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 19/11/2018 | 150.83 X 149.41 X 150.72 | 22536 | **8.990** | 537.3 | 23.8 | 23.3 |
| 2 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 19/11/2018 | 150.83 X 149.77 X 149.49 | 22590 | **8.893** | 514.8 | 22.8 | |
| 3 | Drain Bottom Slab Concrete | M20 | 22/10/2018 | 19/11/2018 | 151.72 X 150.51 X 149.65 | 22836 | **8.360** | 533.8 | 23.4 | |

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